

**NPN Silicon RF power transistor**

**MRF654**

**Description:**

MRF654 is designed for 12.5 Volt UHF large-signal amplifier applications in industrial and commercial FM equipment operating to 512 MHz.

**Features :**

Specified 12.5 Volt, 512 MHz Characteristics:  
Output Power = 15 W, Minimum Gain = 7.8 dB, Efficiency = 55%

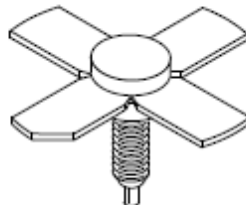
**Maximum Ratings @ $T_U = 25$  :**

Symbol	Test Conditions	Characteristics		Units
BVCES	IC=10 mA	Max.	36	V
BVCEO	IC=30 mA	Max.	18	V
BVEBO	IE=5 mA	Max.	4	V
IC		Max.	4	A
Ptot		Max.	44	W
TSTG		Min.	-65	
		Max.	150	
TjM		Max.	175	

**Characteristics at  $T_U = 25$  ( VCC =12.5 V f=512 MHz )**

Symbol	Test Conditions	Characteristics		Units
Pout		Typ.	15	W
GP		Typ.	14	dB
		Typ.	55	%
hFE	IC =1 A VCE =5V	Typ.	40	
VCEsat	IC =2 A IB =0.4A	Max.	1.2	V
ICES	VCE =15V	Max.	5	mA
CCBO	VCB =12.5V	Typ.	45	pF

**Drawings:**



**CASE 244-04, STYLE 1**